

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U14078	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Tenneco Oil Company		7. UNIT AGREEMENT NAME Proposed Diamond Canyon #2	
3. ADDRESS OF OPERATOR 720 So. Colorado Blvd., Denver, Colorado 80222		8. FARM OR LEASE NAME Tenneco USA	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 333.8 FSL, 1522.0 FEL At proposed prod. zone		9. WELL NO. 15-15	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE See Exhibit V		10. FIELD AND POOL OR CATCHMENT WICCAT Entrada Test	
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. unit line, if any) 333.8'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 15, T18S, R22E	
16. NO. OF ACRES IN LEASE 640		12. COUNTY OR PARISH Grand	
17. NO. OF ACRES ASSIGNED TO THIS WELL 360 unit well		13. STATE Utah	
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. ±7000		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6061 GR		22. APPROX. DATE WORK WILL START October 1980	

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7" new	23# K55	±3150	Circulate to surface
6 1/4"	4 1/2" new	10.5# K55	±7000	Cover all productive zones

See attached.

Pre-staking request attached.

Archaeology Report attached.

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING
DATE: _____
BY: _____

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED M.L. Freeman TITLE Staff Production Analyst DATE September 25, 1980
(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions On Reverse Side

NICKENS and ASSOCIATES

P.O. Box 727
Montrose, Colorado 81401
Phone: (303) 249-3411

September 16, 1980

Mr. M. L. Freeman
Tenneco Oil Exploration and Production
Penthouse
720 South Colorado Boulevard
Denver, CO 80222

Dear Mr. Freeman:

We have completed cultural resource inspections of Tenneco USA Locations 15-15 and 12-10, situated in Grand County, Utah. No cultural resources, either historic or prehistoric, were noted along the proposed access routes nor on the staked boundaries of the well pads. Cultural resource clearance has therefore been recommended and copies of the report have been forwarded to the appropriate federal review offices.

Our invoice to cover this work is enclosed.

Sincerely,



Paul R. Nickens, Ph.D.
Principal Investigator

PRN/j
Enclosures

cc: BLM Grand Resource Area Office
BLM Moab District Office
BLM Utah State Office
U.S. Geological Survey Office

RECEIVED
SEP 18 1980
TENNECO OIL CO.
DENVER



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
Grand Resource Area
P. O. Box M
Moab, Utah 84532

IN REPLY REFER TO

3100
(U-603)

July 15, 1980

Mr. Lee Freeman
Tenneco Oil
720 S. Colorado Blvd.
Penthouse
Denver, CO. 80222

Reference: Staking Request
Well: USA 15-5 *15-15 AS Requested*
Section 15, T. 18 S., R. 22 E.
Grand County, Utah

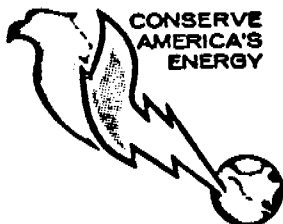
Dear Mr. Freeman:

This office has no objections to staking the above referenced location. Would you include your bond number when submitting your application to drill. In addition you should be knowledgeable that Grand County requires a permit if you plan to use a county road as a portion of your access road. You should contact the County Road Supervisor. A road right-of-way may be required on access to this location. You should be knowledgeable that the proposed location is within a wilderness unit (100c) but outside a proposed Wilderness Study Area. Final determination will come about late fall 1980. An archaeological clearance must be obtained after staking the site.

Sincerely yours,

C. Delano Backus
Area Manager

ACTING



Save Energy and You Serve America!

RECEIVED

JUL 21 1980

TENNESCO
DENVER

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE: August 8, 1980

LEASE: Tenneco USA

WELL NO.: 15-15

LOCATION: 333.8 FSL, 1522.0 FEL
Section 15, T18S, R22E
Grand County, Utah

FIELD: Diamond Canyon

ELEVATION: 6060

TOTAL DEPTH: 7000

PROJECTED HORIZON: Entrada

SUBMITTED BY: Bruce Ladd

DATE: 8-8-80

APPROVED BY: John W. Quinn

DATE: 8/27/80

CC: Administration
DSB Well File
Field File

ESTIMATED FORMATION TOPS

Mesa Verde	Surface
Manos	2610
Castlegate	2910 (Water or Gas)
Frontier	3410
Dakota Silt	6010
Dakota	6135 (Gas)
Morrison	6285 (Water or Gas)
Salt Wash	6525 (Water or Gas)
Entrada	6910 (Water or Gas)
TD	7000

1. MIRURT.
2. Set 1-3 jts. of 9 5/8" casing as needed to be used as conductor pipe.
3. Install casing head and nipple up rotating head and block line.
4. Drill 8 3/4" hole to 3150' or 200 feet into the Castlegate Formation.
5. Run 7", 23#, K-55, ST&C surface casing to T.D. Cement with sufficient volume to circulate cement to the surface.
6. WOC. Nipple up BOP's, rotating head, choke manifold, etc. Pressure test BOP's, manifold, etc. to 1000 psi for 15 minutes.
7. TIH and displace water in casing with air. Drill out shoe and dry up hole.
8. Drill 6 1/4" hole to T.D.
9. Log well as per G. E. Department recommendations.
10. If well is productive, run 4 1/2", 10.5#, K-55, ST&C casing to T.D. Cement with sufficient volume to cover all possible productive zones.
11. If the well is non-productive, P & A as per Regulatory Agency Specifications.

CASING PROGRAM

CONDUCTOR:	30' to 125' as needed. 9 5/8", 36#, K-55, ST&C.
SURFACE:	3150' ±, 7", 23#, K-55, ST&C
PRODUCTION:	7000' , 4 1/2", 10.5#, K-55, ST&C

KJD PROGRAM

1. Anticipate drilling entire hole with air.
2. In the event liquids are encountered, mist drilling will be attempted.
3. Should mist drilling be unsuccessful, the hole will have to be mudded up.
4. Also, if gas is encountered in sufficient volume to compromise the safety of the operations, mudding up will be required.
5. If mudding up is necessary, the following guidelines should be followed.
(1) Weight \pm 9.0 ppg. (2) Vis. as needed to clean hole. (3) W.L. 10cc or less.

EVALUATION

Cores and DST's: No cores or DST's are anticipated.

Deviation Surveys:

0- 3200' 2 1/2°) Surveys to be run every 500' or on trips, whichever comes first. Record surveys on IADC Drilling Report Sheet.
3200'-7200' 5°)

Maximum allowable deviations: (1) 1° change per 100' intervals
(2) 2 1/2° at surface casing setting depth.
(3) 5° at T.D.

In the event that the maximum allowable deviations are exceeded, the Denver Office of Tenneco Oil Company will be *notified immediately*.

Samples: NONE.

Logs:

SNP/GR)
FDC/GR)
DIL)

Air drilled.

FDC/CNL)
DIL/LLB w/SP)

Mud Drilled.

BLOWOUT EQUIPMENT

1. Double ram hydraulic with pipe and blind rams operated by an accumulator.
2. Rotating head on air/mist holes.
3. Preventors must be checked for operation every 24 hours. This check MUST BE RECORDED on the IADC Drilling Report Sheet.

REPORTS

Drilling reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud costs, plus any other pertinent information, will be called into Tenneco Oil Company, Denver, Colorado, between 7:30 a.m. and 8:00 a.m.

1. 303-758-7130 (Office) Don Barnes
303-758-7287 (Office) Don Barnes' private line, Monday-Friday (before 7:45 a.m.)
303-936-0704 (Home) Don Barnes, weekends and holidays.
2. George Ramsey (Home) 303-771-5154.
3. John Owen (Home) 303-795-0221.

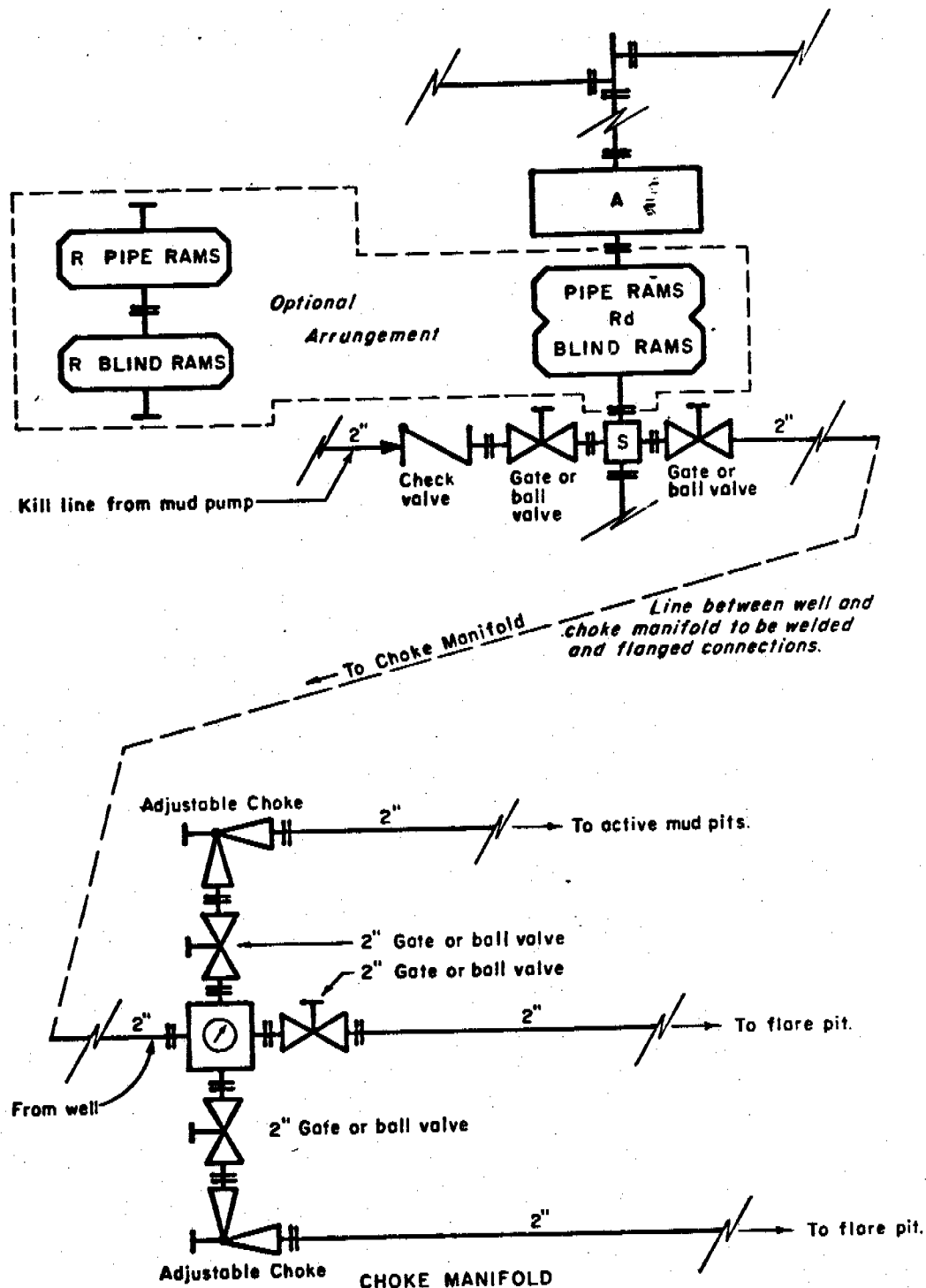
The yellow sheet of the IADC Report is to be filled out completely. The original copy of the drilling time recorder, and copies of any invoices from this well, signed and received for Tenneco Oil Company, will be mailed daily to:

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

ATTENTION: Drilling Department

IN CASE OF EMERGENCY, NOTIFY THE FOLLOWING:

1. Mr. Don Barnes, Division Drilling Engineer.
2. Mr. George E. Ramsey, Jr., Drilling Engineers Supervisor
3. Mr. John W. Owen, Project Drilling Engineer.
4. Mr. Mike Lacey, Division Production Manager (Home 303-979-0509).



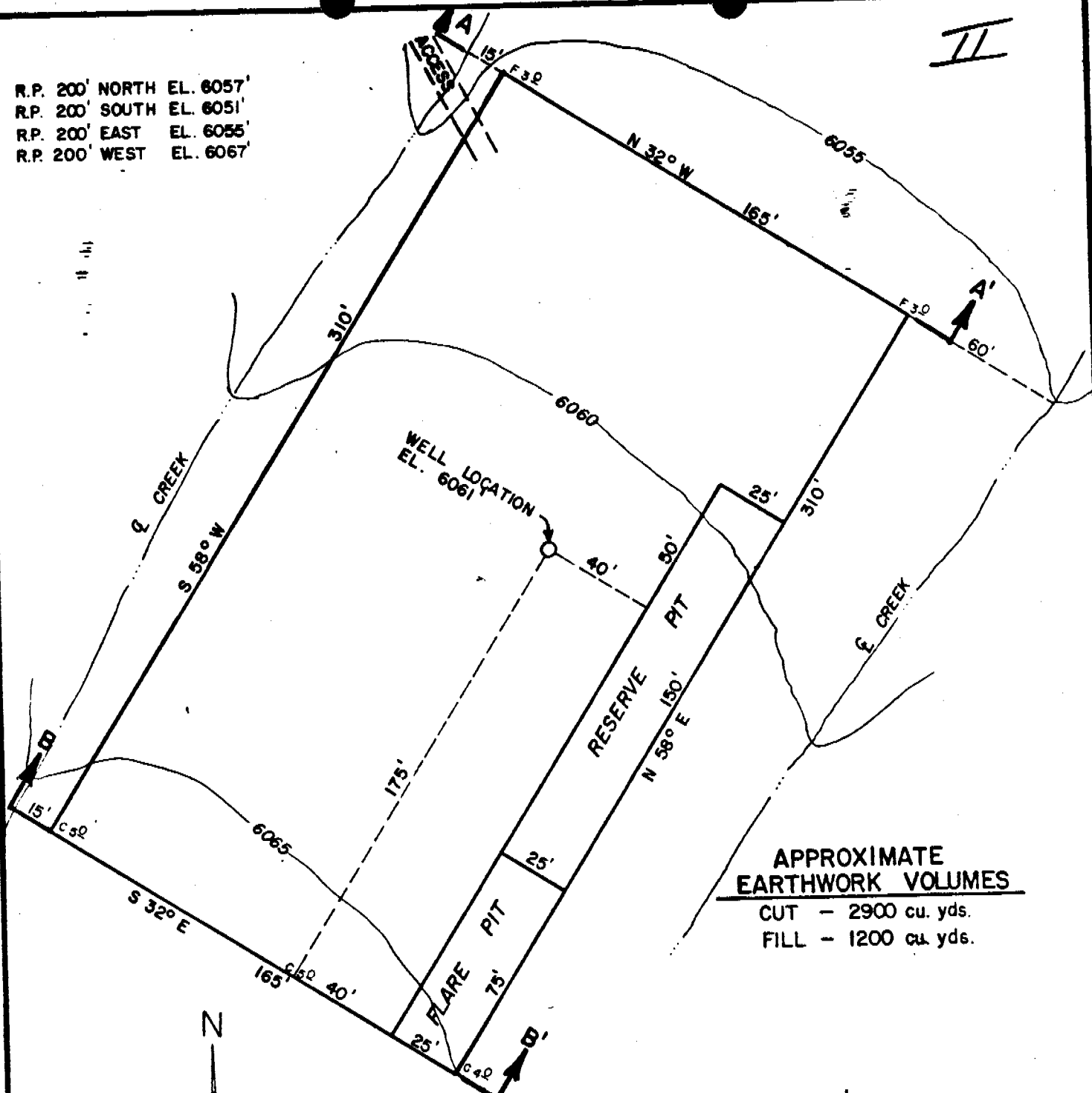
All equipment to be 3,000 psi working pressure except as noted.

- Rd Double ram type preventer with two sets of rams.
- R Single ram type preventer with one set of rams.
- S Drilling spool with side outlet connections for choke and kill lines.
- A Annular type blowout preventer.

ARRANGEMENT B

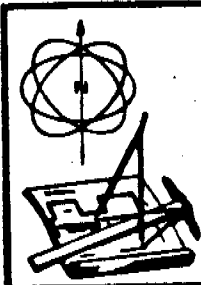
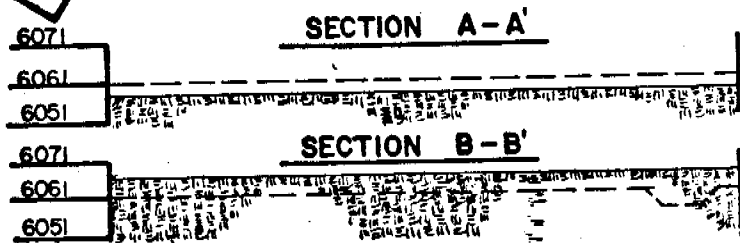
TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
REQUIRED MINIMUM
BLOWOUT PREVENTER AND
CHOKE MANIFOLD

R.P. 200' NORTH EL. 6057'
 R.P. 200' SOUTH EL. 6051'
 R.P. 200' EAST EL. 6055'
 R.P. 200' WEST EL. 6067'



APPROXIMATE EARTHWORK VOLUMES

CUT - 2900 cu. yds.
 FILL - 1200 cu. yds.

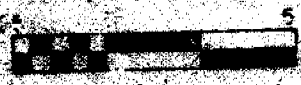
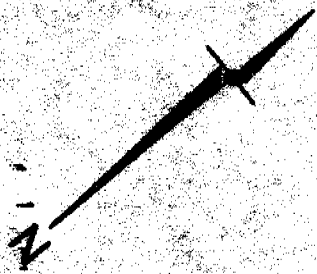
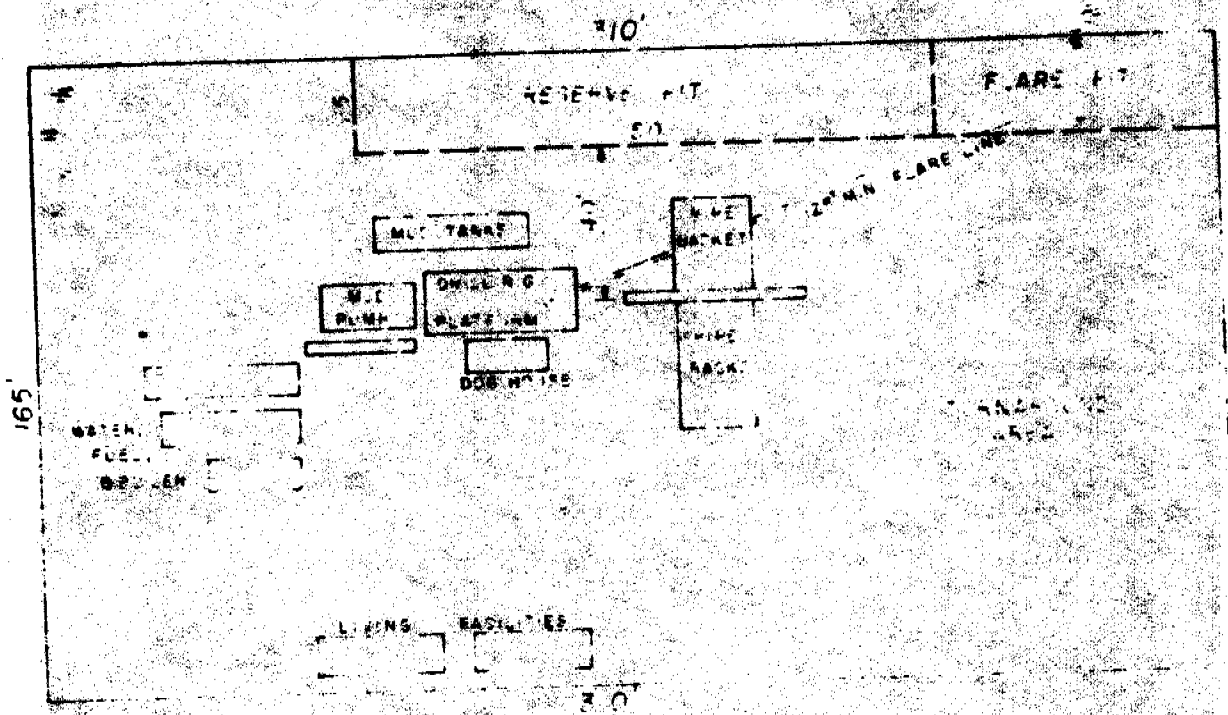


ARMSTRONG ENGINEERS and ASSOCIATES, INC.
 ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING
 861 ROOD AVENUE - GRAND JUNCTION, COLORADO 81501 - (303) 245-3861

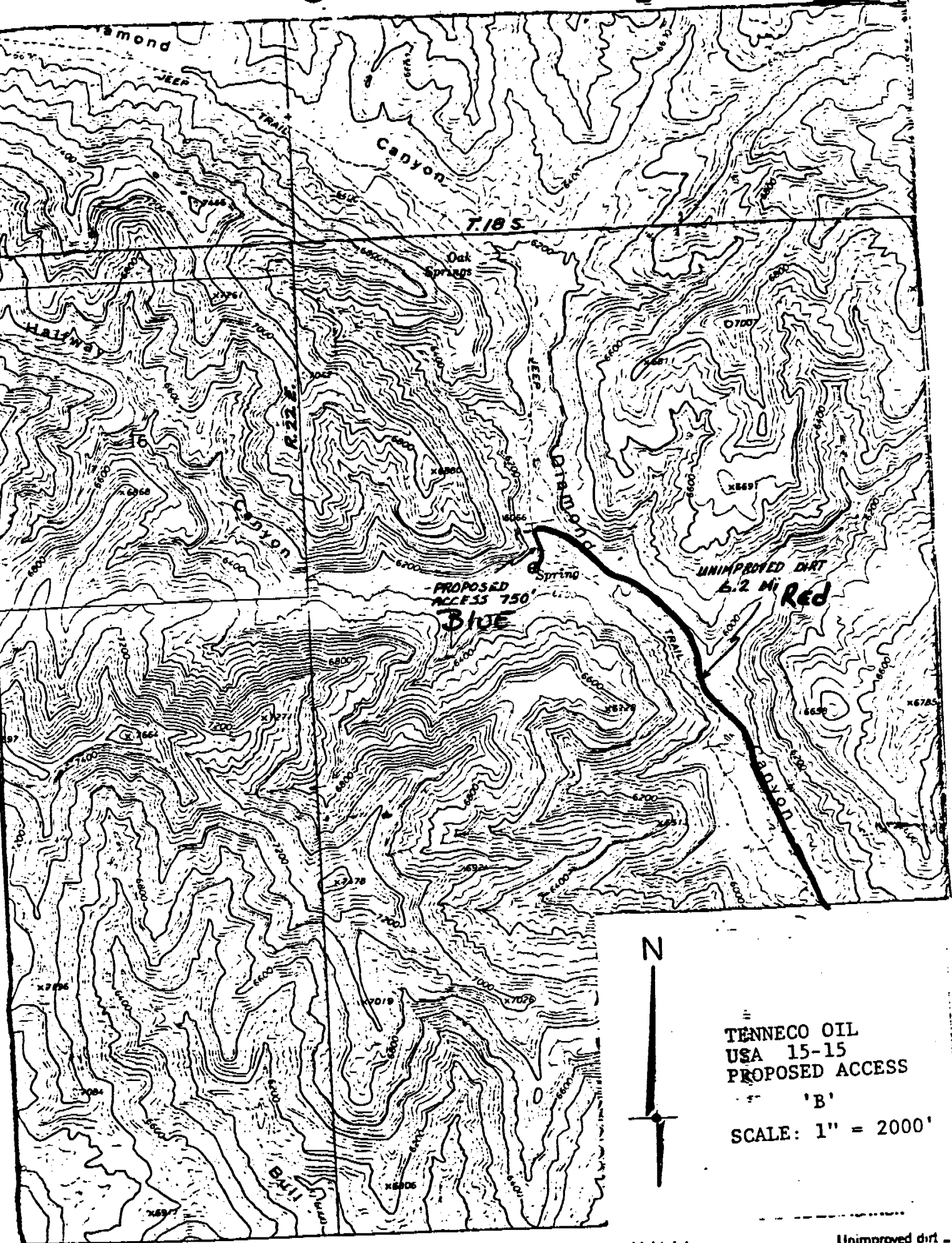
SCALE	AS SHOWN	TENNECO OIL	JOB NUMBER 802949
DATE	8/21/80	USA 15-15	
DRAWN BY	SZH		
CHECKED BY	JRS		
DATE OF REVISION	8/19/80	SHEET 2 of 5	

RIG LAYOUT

III



	ARMSTRONG ENGINEERS and ASSOCIATES, INC. ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING 86 ROBIN AVENUE • BIRMINGHAM, ALABAMA 35201 • (205) 245-3861		
	DATE: 8/21/80 BY: JMT CHECKED: JRS DATE: 8/19/80	TENNECO OIL U.S.A. 15-15	
	SHEET 3 of 5		JOB NUMBER 802949



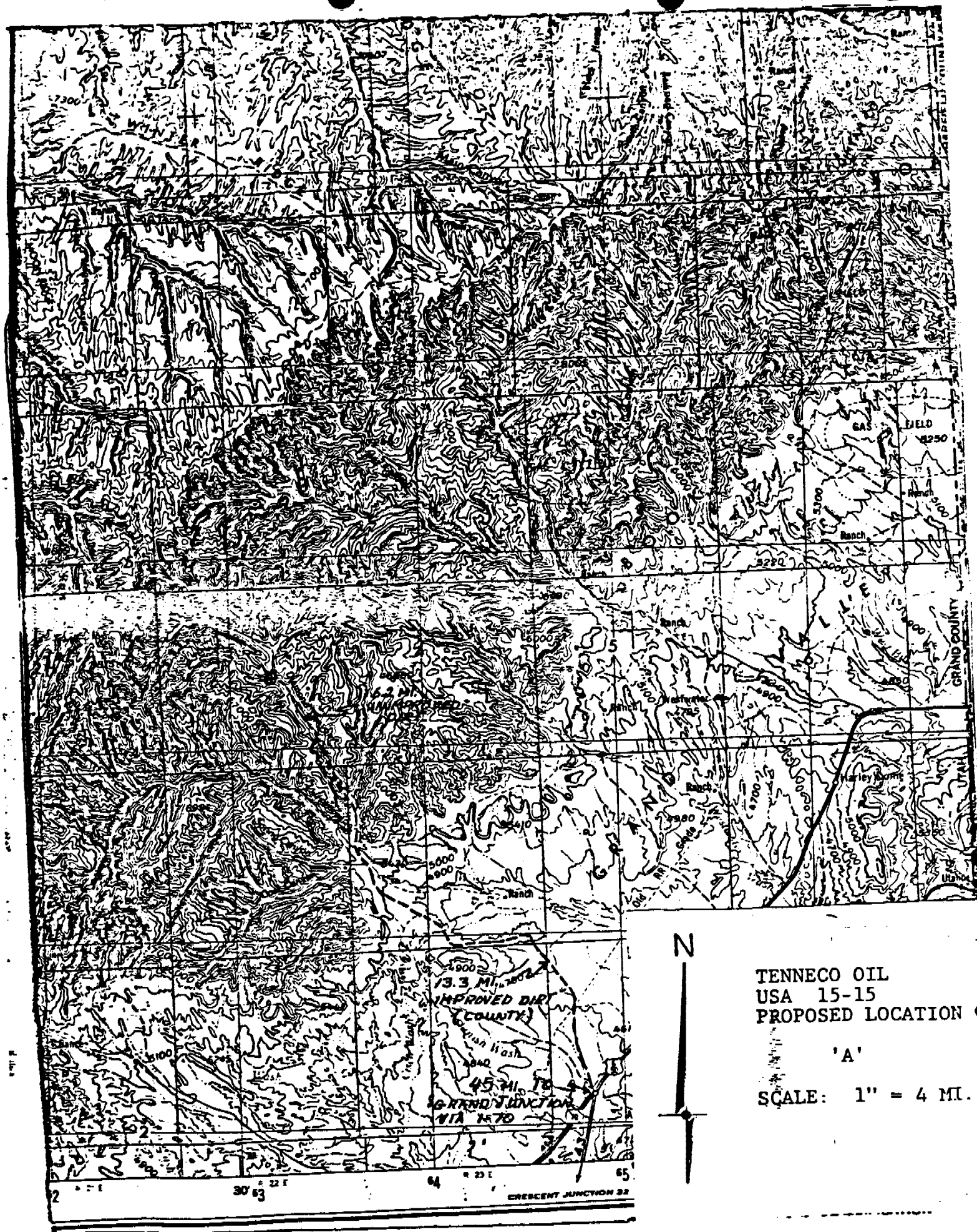
TENNECO OIL
USA 15-15
PROPOSED ACCESS

'B'

SCALE: 1" = 2000'

Light-duty

Unimproved dirt



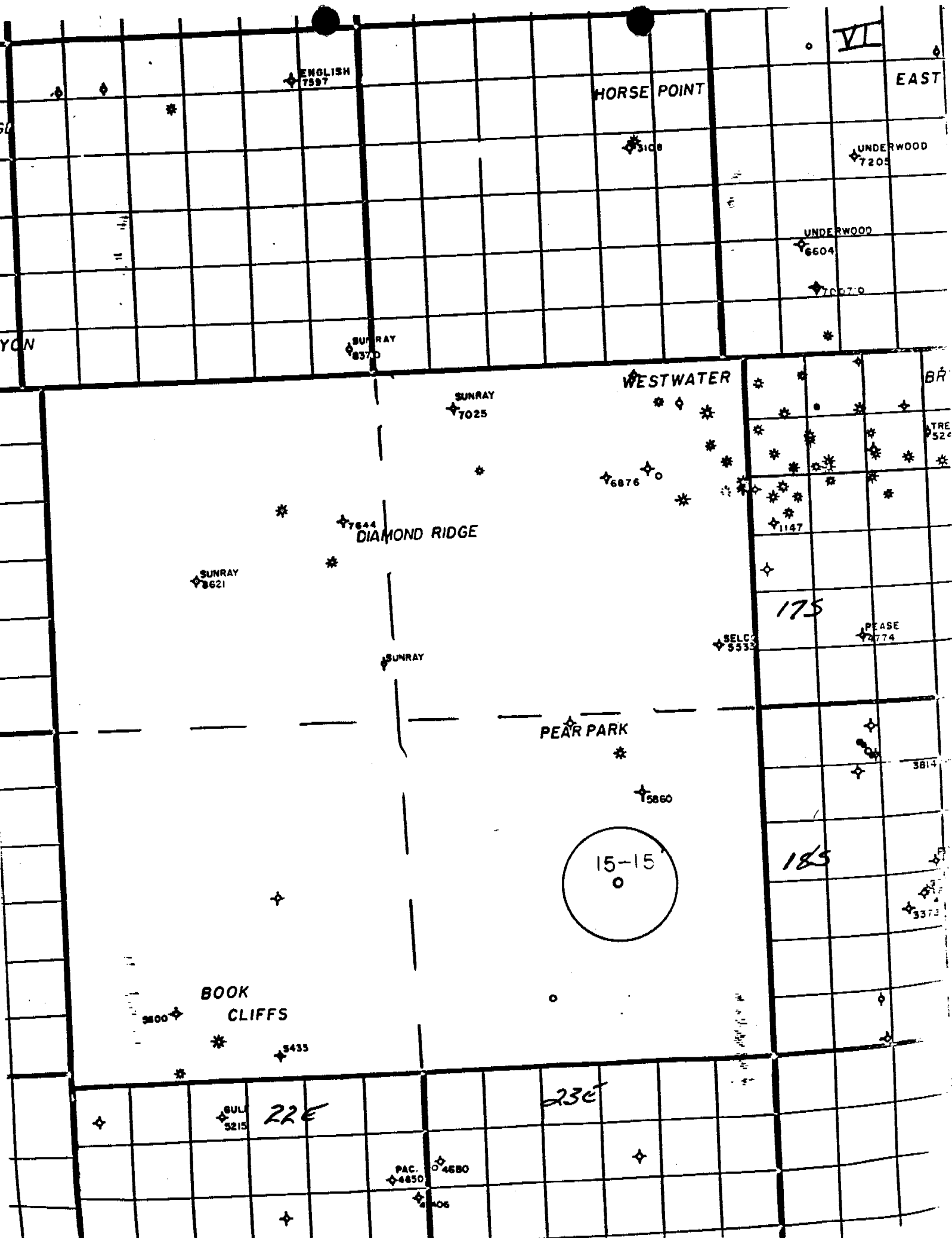
TENNECO OIL
USA 15-15
PROPOSED LOCATION ⊕

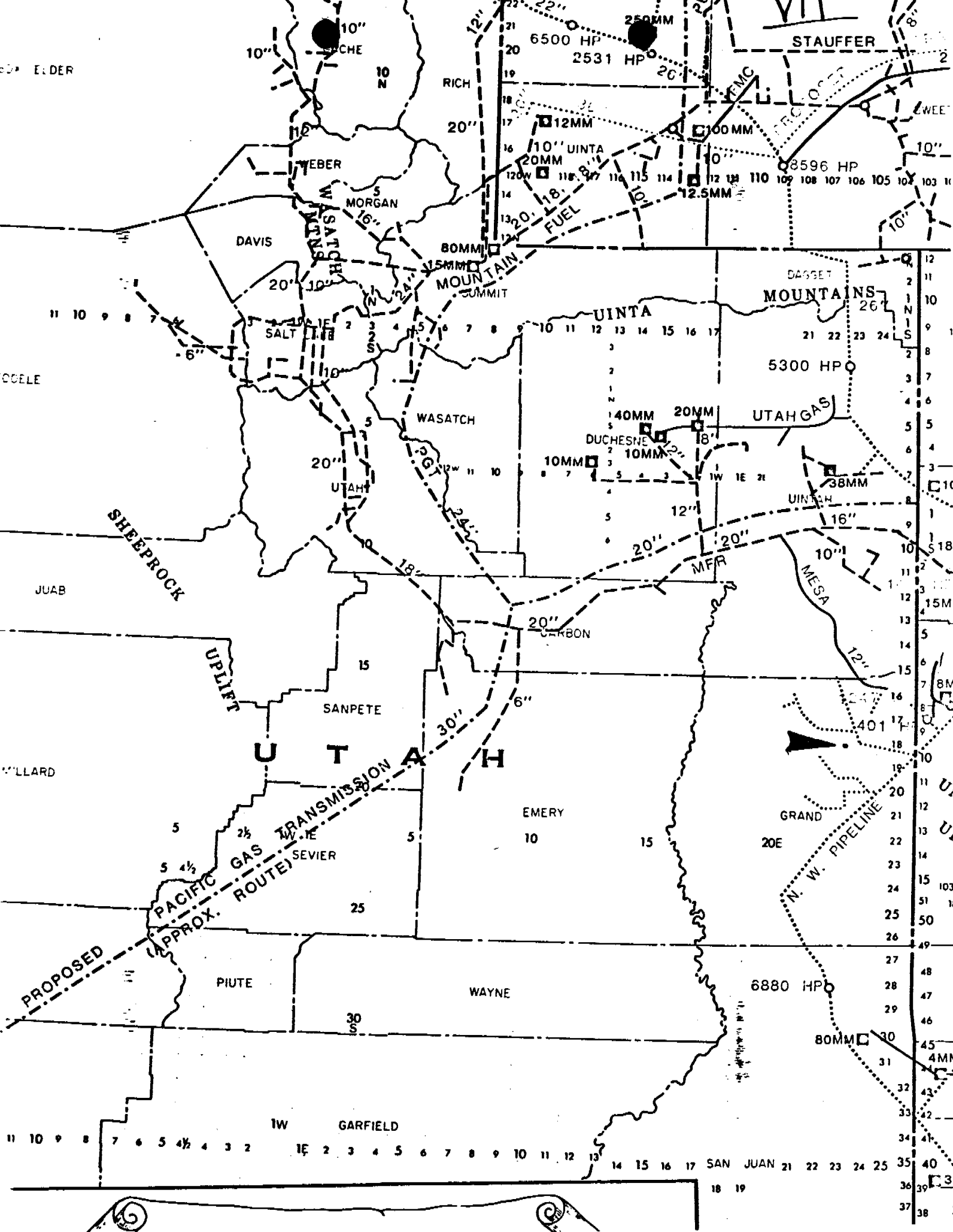
'A'

SCALE: 1" = 4 MI.

Light-duty

Unimproved dirt ---





I. EXISTING ROADS

(a) Proposed Well Site Location:

As surveyed by a registered land surveyor is located 333.8 FSL, 1522.0 FEL, Section 15, T18S, R22E, Grand County, Utah.

See Exhibit I.

(b) Planned Access Route: See Exhibits IV & V.

(c) Access Road Labelled:

Color Code: Red - Improved surfaced roads
Blue - New access road to be constructed.

(d) Not applicable, the proposed well is a development well.

(e) The existing roads are show in Exhibits IV & V.

(f) Existing Road Maintenance or Improvement:

The existing road will require minor improvements. However, this road, along with the new access road, may require occasional grading to return the road surface to a cross section necessary for proper drainage.

II. PLANNED ACCESS ROUTE

(a) Route Location - (See Exhibits IV & V)

The planned new access route was selected to provide the shortest distance to the well site with acceptable grades from the main connector road. Temporary access will be built initially, if the facility is productive, the temporary road will be improved as follows:

(1) Width:

The average dirt width will be twenty feet. The average traveled surface width will be twenty feet. Road construction will be in accordance with typical roadways requested by the U. S. Bureau of Land Management.

(2) Maximum Grades:

The maximum grade allowed will be 15%, however, this may vary as topographical conditions vary. Due to the canyon bottom minimal grades are expected.

(3) Turnouts: Turnouts are not required

(4) Drainage Design:

Prior to construction of the new access road, the brush and topsoil will be windrowed to each side of the alignment outside construction limits. The subgrade surface will be a minimum elevation of one foot above ditch grade. The road surface will be center crowned and the inslopes will have a maximum slope of 3:1 and fill slopes will be a maximum of 2:1.

(5) Culverts Use, Major Cuts and Fills: Culverts will be placed as needed and suggested by the BLM.

Max: cut -
Max: fill - minimal

(6) Surfacing Material:

The proposed permanent access road will be constructed with native material.

(7) Gates, Cattleguards, Fence Cuts:

Not needed

(8) New portion of road will be center flagged

III. LOCATION OF EXISTING WELLS

The proposed well is a development well. Exhibit VI shows existing wells within a one mile radius.

- A. Water Wells: N/A
- B. Abandoned Wells: N/A
- C. Temporarily Abandoned Wells: N/A
- D. Disposal Wells: N/A
- E. Drilling Wells: N/A
- F. Producing Wells: ~~See Exhibit~~ N/A
- G. Shut-In Wells: N/A
- H. Injection Wells: N/A
- I. Monitoring or Observation Wells: None.

IV LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. Existing facilities within one mile owned or controlled by Lessee/Operator:

- | | |
|-----------------------------|------|
| (1) Tank batteries - | None |
| (2) Production facilities - | None |
| (3) Oil Gathering Lines - | None |
| (4) Gas Gathering Lines - | None |
| (5) Injection Lines - | None |
| (6) Disposal Lines - | None |

B. New Facilities in the Event of Production:

1. New facilities: well head, condensate tank, production unit, meter house all constructed on disturbed ground.
2. Dimension of the facilities are shown in Exhibits II & III.
3. Construction will be to strip the topsoil, level drilling pad. Dehydrator pits will be constructed with soil materials native to the site. Construction methods will be employed to assume that no drainage flows are impounded to prevent the loss of any hydrocarbon from the site. This is to be done in a manner to facilitate rapid recovery and clean up.
4. Protective measures to protect wildlife and livestock: Dehydrator pits shall be overhead flagged should any hydrocarbon material be present on the surface. The dehydrator pits shall be fenced to prevent entry of livestock or wildlife.

C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction completed:

Upon completion of well, areas required for continued use will be graded to provide drainage and minimize erosion. Those areas not required for continued usage will be graded to provide drainage and minimize erosion. Those areas unnecessary for use will be graded to blend with the surrounding topography. Topsoil will be replaced on those areas and seeded according to BLM specifications.

V. LOCATION AND TYPE OF WATER SUPPLY

- (a) The water source has not yet been determined but will be from a legal private source.
- (b) Water Transportation system: Water to be hauled in trucks from an undetermined pick up point.
- (c) Water Wells: None

VI. SOURCE OF CONSTRUCTION MATERIALS

(a) Materials:

Construction materials will consist of soil encountered with the boundaries of the proposed site. Topsoil will be stripped to a depth of six inches and stockpiled in an area that does not interfere with operations.

(b) Land Ownership:

The planned site and access roads lie on Federal land administered by the United States Department of Interior, U.S. Bureau of Land Management.

(c) Materials Foreign to Site: NA

(d) Access road shown under item II

VII. METHODS OF HANDLING WASTE MATERIALS

(a) Cuttings:

Will be contained within the limits of the reserve pit.

(b) Drilling Fluids:

Will be retained in the reserve pit.

(c) Produced Fluids:

No substantial amount of water is expected. The amount of hydrocarbon that may be produced while treating will be retained in the reserve pit. Previous to clean up operations the hydrocarbon materials will be skimmed or removed as the situation would dictate.

(d) Sewage::

Sanitary facilities will consist of at least one chemical toilet. Waste will be contained in a pit and backfilled immediately following the drilling operations or removed to a sanitary disposal facility.

(e) Garbage:

A burn cage will be constructed and fenced with small mesh wire. The refuse will be removed from the area and taken to a landfill.

(f) Clean up of well site:

After drilling, the surface of the drill pad will be cleaned and graded to accommodate a completion rig. The "mouse hole and rat hole" will be backfilled to prevent injury and hazard for livestock. Reserve pit will be fenced until dry and it can be backfilled and restored to natural terrain.

VIII. ANCILLARY FACILITIES

None required.

IX. WELL SITE LAYOUT

1. See Exhibits
2. Location of pits: Exhibits II & III
3. Rig Orientation: Exhibits II & III
4. Pits will be unlined, unless otherwise required.

X. PLANS FOR RESTORATION OF SURFACE

A. Reserve Pit Cleanup:

The pit will be fenced prior to rig release and shall be maintained until clean up. Previous to backfill operation, any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured to prevent impoundment of any drainage flows. The gradient of the surface will be maintained to prevent sudden acceleration of drainage flows which could cause continued erosion of the surface. Following backfill completion, topsoil removed from the disturbed areas will be replaced in a uniform layer. The reserve pit will be seeded per Bureau of Land Management recommendation during the appropriate season following final restoration of the site.

B. Restoration Plans - Production Developed:

The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography. Topsoil will be placed on these areas and seeded. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following final improvement and surfacing of that portion of new access road, the topsoil windrowed to each side of the alignment will be placed on the cut slopes. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.

C. Restoration Plans - No Production Developed:

Of course the reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored to its natural terrain and reseeded per Bureau of Land Management requirements.

XI. OTHER INFORMATION

A. Surface Description:

The proposed site is located in Halfway Canyon which is a Western tributary of Diamond Canyon. The topography is slightly rolling. The soils are sandy, fractured sandstone supporting sage, juniper, rabbit brush and native grasses.

B. Other Surface - Use Activities: The surface is federally owned and managed by the BLM/USGS. The predominant surface use is mineral exploration and production.

C. Proximity of Water, Dwelling, Historical Sites:

1. Water: A small spring exists in the area but should not be disturbed during construction.
2. Occupied Dwellings: Not existing.
3. Historical Sites: An Archaeological Reconnaissance has been performed for this location and clearance has been granted. Report is attached.

XII. OPERATOR'S REPRESENTATIVE

Field Personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Donald Barnes
720 So. Colorado Blvd.
Denver, Colorado 80222
Office: (303) 758-7130
Extension 212

M. L. Freeman
720 So. Colorado Blvd.
Denver, Colorado 80222
Office: (303) 758-7130
Extension 280

XIII. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and sub-contractors will conform to this plan.

DATE: 1-15-81


M. L. Freeman
Staff Production Analyst

U.S.

BLM Report ID No.

Report Acceptable

Mitigation Acceptable Yes

Comments:

Ut 8100-3 (1/90)

TENNECO OIL COMPANY - 10 POINT PLAN

1. The geological name of the surface formation: Mesa Verde
- 2 & 3. Estimated Formation Tops:

(See Attached Drilling Procedure)
4. Proposed Casing Program:

(See Attached Drilling Procedure)
5. Blowout Preventors:
Hydraulic double ram. One set of rams will be provided each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC Log.
6. Mud Program: (Sufficient quantity of mud and weight material will be available on location).

(See Attached Drilling Procedure.)
7. Auxiliary Equipment:
 - a. Kelly cock will be in use at all times.
 - b. Stabbing valve to fit drill pipe will be present on floor at all times.
 - c. Mud monitoring will be visual. No abnormal pressures are anticipated.
 - d. Floats at bits.
 - e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
8. Coring, Logging, and Testing Program:

(See Attached Drilling Procedure)
9. No abnormal pressures, temperatures or potential hazards such as H₂S are expected to be encountered.
10. The drilling of this well will start approximately (October 1980) and continue for 10 to 12 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.

**Tenneco Oil
Exploration and Production**
A Tenneco Company

Rocky Mountain Division

Penthouse
720 South Colorado Blvd.
Denver, Colorado 80222
(303) 758-7130

July 7, 1980

Mr. Ed Guynn
U. S. Geological Survey
2000 Administration Bldg.
1745 West, 1700 South
Salt Lake City, Utah 84138

Re: Tenneco State 7-8
NE $\frac{1}{4}$, Sec. 7, T18S, R21E
Tenneco State 11-15
SE $\frac{1}{4}$, Sec. 11, T19S, R20E
Tenneco USA 12-10
SE $\frac{1}{4}$, Sec. 12, T19S, R22E
Tenneco USA 14-1
NE $\frac{1}{4}$, Sec. 14, T19S, R23E

Tenneco USA 15-15
SE $\frac{1}{4}$, Sec. 15, T18S, R22E
Tenneco USA 17-9
SE $\frac{1}{4}$, Sec. 17, T18S, R24E
Tenneco USA 30-16
SE $\frac{1}{4}$, Sec. 30, T18S, R24E
Tenneco State 36-7
NE $\frac{1}{4}$, Sec. 36, T18S, R20E
Grand County, Utah

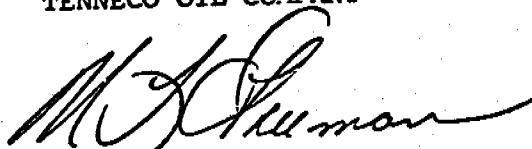
Dear Mr. Guynn:

Pursuant to NTL-6 Part II A, a preliminary environmental review is requested prior to the entry on the ground for the purpose of staking the referenced locations, access roads, and other surface use areas.

Please notify us at your earliest convenience of the status of approval.

Yours very truly,

TENNECO OIL COMPANY



M. L. Freeman
Staff Production Analyst

MLF/rr
Encls.

cc: Bureau of Land Management
Moab, Utah

**** FILE NOTATIONS ****

DATE: October 9, 1980
OPERATOR: Jenneco Oil Company
WELL NO: Jenneco USA #15-15
Location: Sec. 15 T. 18S R. 22E County: Grand

File Prepared: ☐ Entered on N.I.D: ☐
Card Indexed: ☐ Completion Sheet: ☐

API Number 43-019-30770

CHECKED BY:

Petroleum Engineer: M. J. Minder 1-27-81
Will have walk over with Ed & then apply for topo. exception
Called J. Foster 10/16/80 15th Nov. should be in Ed Unit. Called 11-16-80
Still holding for Ed unit
Director: _____

Administrative Aide: C-3 - too close to qtr qtr line - both

APPROVAL LETTER:

Bond Required: ☐ Survey Plat Required: ☐
Order No. _____ O.K. Rule C-3 ☐
Rule C-3(c), Topographic Exception - company owns or controls acreage
within a 660' radius of proposed site ☐
Lease Designation ☒ Plotted on Map ☒
Approval Letter Written ☒
Hot Line ☒ P.I. ☒

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Tenneco Oil Company

3. ADDRESS OF OPERATOR

720 So. Colorado Blvd., Denver, Colorado 80222

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

(33.8 FSL)

333.8 FSL, 1522.0 FEL

SW SE

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

See Exhibit V

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

333.8'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

640

19. PROPOSED DEPTH

±7000

17. NO. OF ACRES ASSIGNED
TO THIS WELL

360 unit well

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6061 GR

22. APPROX. DATE WORK WILL START*

October 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7" new	23# K55	±3150	Circulate to surface
6 1/4"	4 1/2" new	10.5# K55	±7000	Cover all productive zones

See attached.

Pre-staking request attached.

Archaeology Report attached.

DIVISION OF
OIL, GAS & MINING

Federal Approval Received 1-14-81

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING

DATE: 1-27-81

BY: M.J. Munder

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

M.J. Freeman

TITLE

Staff Production Analyst

DATE

1-15-81

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

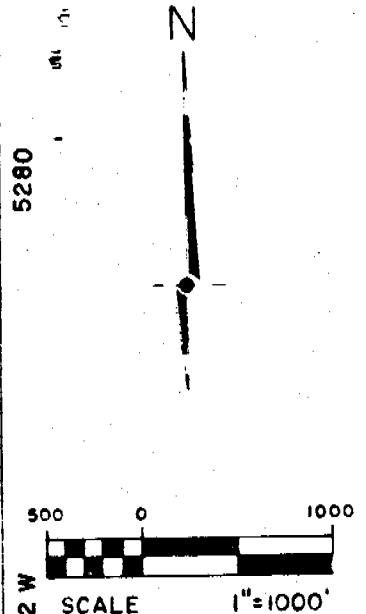
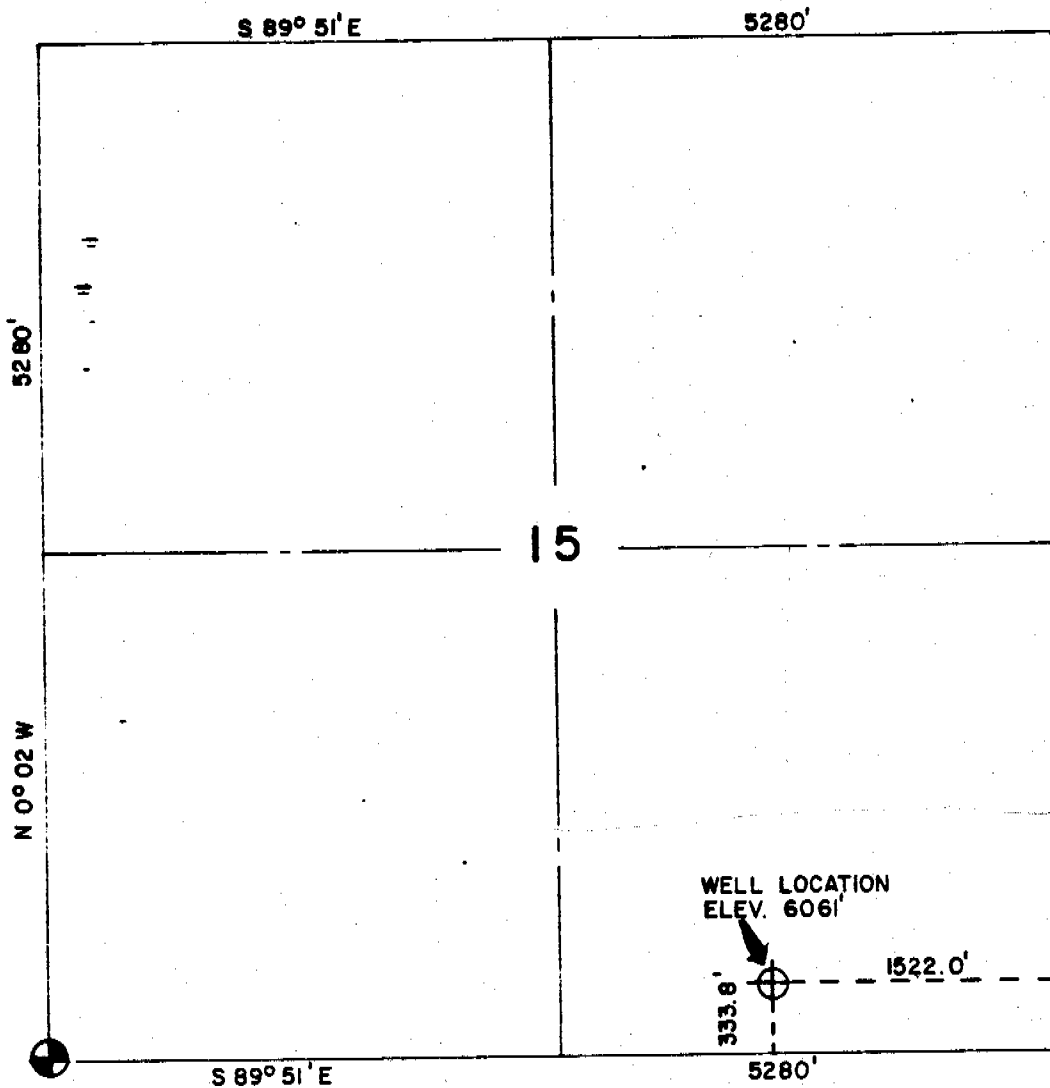
APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side



Found U.S. B.L.M.
Cadastral B.C. 1960

Basis of Bearing:
Solar Observation.

WELL LOCATION
333.8 FT.N S.L. - 1522.0 FT.W E.L.
SECTION 15, T.18S., R.22E., SLB&M
GRAND COUNTY, UTAH



SURVEYOR'S CERTIFICATE

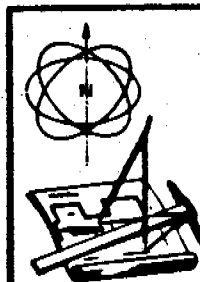
I, Edward A. Armstrong, a registered land surveyor in the State of Utah, do hereby certify that this survey was made under my direct supervision and that this plat represents said survey.

Edward A. Armstrong

EDWARD A. ARMSTRONG P.E. & L.S. 4464

NOTE:

Bearings and Distances on North, East, and South lines are Calculated from available G.L.O. Information.



ARMSTRONG ENGINEERS and ASSOCIATES, INC.
ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING
861 ROOD AVENUE -- GRAND JUNCTION, COLORADO 81501 -- (303) 245-3861

SCALE 1"=1000'
DATE 8/21/80
DRAWN BY JMT
CHECKED BY EAA
DATE OF REVISION 8/19/80

TENNECO OIL
U.S.A. 15 - 15

SHEET 1 of 5

JOB NUMBER
802949

January 29, 1981

Tenneco Oil Company
720 So. Colorado Blvd.
Denver, Colorado 80322

Re: Well No. USA #15-15
Sec. 15, T. 18S, R. 22E
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (Aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30770.

Sincerely,

DIVISION OF OIL, GAS, AND MINING


Michael T. Minder
Petroleum Engineer

/ko
cc: USGS

RECEIVED

APR 28 1981

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DIVISION OF
OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other ☐
2. NAME OF OPERATOR
Tenneco Oil Company
3. ADDRESS OF OPERATOR
P. O. Box 3249, Englewood, CO 80155
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 333.8' FSL 1522' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input checked="" type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>
(other) Commence drilling operations/name change	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Tenneco proposes to change the name of the above referenced well to:

Diamond Canyon II Unit USA 15-15

4/18/81 - MIRURT. Spud well 4/17/81 w/Cardinal rig #4. Set 40' of conductor pipe. Cmt w/128 sx of Redicrete.

4/19/81 - Drill to 421'. Circ. Short trip. TOOH. Run 11 jts (420') of 9-5/8" 36# csg, set @ 418' cmt w/120 sx Class G w/3% CACL₂ and 1/4#/sk Flocele. Plug down. Circ. cmt to surface.

4/20/81 - Test well head. Clean mud tank. NU and pressure test blind rams to 1200 PSI. Pipe rams tested to 800 PSI.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Charles J. Hetherington TITLE Asst. Div. Adm. Mgr. DATE 4/23/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
Box 3249, Englewood, Colorado 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 333.8' FSL & 1522' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☒
☐
☐
☐
☐
☐
☐
☐
☐
☐

DEPT. OF
OIL, GAS & MINING

5. LEASE
U-14078

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Diamond Canyon Unit USA

9. WELL NO.
15-15

10. FIELD OR WILDCAT NAME
Entrada Test

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 15, T18S-R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WDB)
6061' gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

4/28/81. TOOH. Log. RU and run 72 jts. 7" 23# csg set @ 2934 w/ shoe @ 2931'. Cmt w/400 sx 50/50 POZ, 10% salt, 3% CACLg. 1/4#/sk Celloflake. Tail w/100sx Class G neat. Plug down. Circ. 1 bbl. cmt. to surface. Float did not hold. Bradenhead squeeze w/10 sx cmt.

4/29/81. WOC. Set 7" slips w/50,000#. NU BOPE. Test blind rams to 1500 PSI for 15 mins. Pipe ram to 1000 PSI for 15 mins, hydril to 800 PSI for 15 mins. TIH. Tag top of cmt @ 2847'. Float collar @ 2893'. Drilled cmt. drilled out shoe and resumed drilling 6 1/4" hole.

5/8/81. TOOH @ depth of 6598'. Mix mud. Break circ in 7" csg, OK. TIH to 4655 and lost circ.

5/9/81. Circ and cond mud. TOOH. Pick up fishing tools. TIH. Screw into fish and start jarring. Jar fish 25' up hole. Jars quit. Ran free point. Free to 5841'. Back off drill pipe. Pipe came apart @ 4921; screw back in and back off @ 5692'. Pull 3'. Hole is tight. Circ. and work pipe.

Subsurface Safety Valve: Manu. and type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Curly J. [Signature] TITLE Asst. Div. Adm. Mgr. DATE 5/18/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

GEOLOGICAL REPORT
ON
TENNECO OIL COMPANY
DIAMOND CANYON II, 15-15
GRAND COUNTY, UTAH

RECEIVED

JUN 29

DIVISION OF
OIL, GAS & MINING

BY
TERRY L. TILTON
FOR
LARSEN GEO LOGGING

GEOLOGICAL SUMMARY

OPERATOR: Tenneco Oil Company

WELL: Diamond Canyon II 15-15

Mancos Shale

The resumed drilling operation was sampled beginning at 3720 feet. The predominate lithology of the Mancos is dark gray, silty, firm, calcareous, slightly fissile shale. A dirty gray, 'salt and pepper', very fine to fine grained sandstone with poor visible porosity is found with the shale in samples from 3720 feet to 4070 feet. Background gas in this interval ran from 20 to 50 units of total gas, (1 unit = 100 ppms or .01% gas), with connection gas up to 75 units. Samples indicated a few thin sandstone beds were present in the interval between 5050 feet and 5300 feet. A light gray, 'salt and pepper', very fine to fine grained, subangular grained sandstone with brown streaks was found in samples from 5420 feet to 5490 feet. Only the sand in the sample from 5300 feet showed fluorescence, a dull gold color, probably due to a high concentration of bentonite.

Background gas, below the initial shale and sandstone sequence, ranged from 20 to 200 units, with the connection gas at 4450 feet reaching 900 units. The trip gas, 1350 units, at 5330 feet is related to the chromatograph breakdown of 25,000 ppm C₁; 1,730 ppm C₂; 780 ppm C₃; and 900 ppm C₄.

Frontier Formation

Lithologically similar to the Mancos, the predominate rock in the samples is a dark gray, firm, silty to sandy, calcareous shale. This shale is distinguished by exhibiting in part of the shale, small, white calcosperes. Associated with the shale is a light gray to white, 'salt and pepper', very fine to fine grained, predominately subangular grained sandstone which makes up 10 to 20% of the samples through the Frontier.

Background gas ran from 200 to 400 units through this section. A background surge of 550 units between 5780 feet and 5785 feet is related to a chromatograph breakdown of 13,000 ppm C₁; 3,000 ppm C₂; 1,300 ppm C₃; and 1,000 ppm C₄.

Dakota Silt

The Dakota silt is distinguished by a light gray, 'golden' brown, bentonitic, soft, brittle, dense siltstone. This siltstone is not evident in samples taken from the previous air drilled holes through this interval at this site and at the sites 14-1 and 16-4. Apparently, it is reduced to 'dust'

GEOLOGICAL SUMMARY

OPERATOR: Tenneco Oil Company

WELL: Diamond Canyon II 15-15

in drilling and/or transit up the pipe during air drilling. The predominate lithology in the samples taken from this unit is dark gray, silty, calcareous shale. A light gray, clear, 'salt and pepper', very fine to fine grained, subangular grained, friable sandstone is also present in the samples through this unit. Trace quantities of bentonite and pyrite are found.

Background gas reached a high of 1000 units after a 1400 unit connection gas show at 5955 feet. General background then fell to a steady 250 units midway through this interval and continued at that level for the remaining portion. The trip gas, 1500 units, at 6030 feet is related to a chromatograph breakdown of 92,000 ppm C₁; 20,000 ppm C₂; 7,150 ppm C₃; 1,850 ppm C₄.

Dakota Sandstone

The samples taken through the Dakota Sandstone indicate a dominant lithology of white, clear, clean to clayey, rounded to subangular grained, very fine to fine grained, friable sandstone. An upper and lower sandstone bed is separated in the samples by a dark gray, silty, firm, slightly fissile, calcareous shale.

Background gas ran between 200 and 250 units in the upper sand, and between 100 and 150 units below that. The trip gas coming from the top of the Dakota Sandstone was approximated at 2000+ units, since pegged attenuation settings and a partially clogged air flow line, due to the gas surge in the pit, hampered instrument operation. This was however, the greatest gas episode of this hole. The connection gas, 880 units, at 6187 feet is related to a chromatograph breakdown of 17,350 ppm C₁; 3,350 ppm C₂; 1,740 ppm C₃; 750 ppm C₄.

Morrison Formation

Approximately 35 feet of Morrison was drilled. In the upper 20 feet, the lithology of the samples is light to medium green, some lavender, non-calcareous claystone with common rounded fine quartz grains. Below this, red, calcareous siltstone is found in the samples.

Background gas dropped from about 140 units through the basal portion of the Dakota Sandstone to 80 units in the Morrison. The trip gas, 845 units, at 6314 feet is related to a chromatograph breakdown of 94,000 ppm C₁; 8,320 ppm C₂; 2,720 ppm C₃; 930 ppm C₄; 1,507 ppm C_{4N}.

BIT RECORD

OPERATOR TENNECO OIL COMPANY WELL DIAMOND CANYON II 15-15

BIT NO.	SIZE	MFR.	TYPE	DEPTH		FEET	HOURS	FT/HR
				IN	OUT			
1	12 1/4	REED	HS-51	0	425	425	22 1/2	18.9
2*	8 3/4	HUGHES	OSC-3	425	790	365	10	36.5
3	8 3/4	STC	F-2	790	2394	1604	62 3/4	25.6
4	8 3/4	HTC	J-22	2394	2934	540		
5	6 1/4	HTC	OSC-3J	2934	3305	371	8 1/2	43.6
6	6 1/4	HTC	OSC-3J	3305	4220	915		
7	6 1/4	HTC	J-33	4220	6386	2168	69 1/4	31.3
8	6 1/4	HTC	J-55	6386	--	206		
8	(Bit #8	stuck &	left in	hole)				
9	6 1/4	HTC	OSC-3					
10	6 1/4	CHRIS	MD4355T		3680			
11	6 1/4	HTC	OSC-3	3680	3697	17	1	17
12	6 1/4	HTC	OSC-3J	3697	3856	159	18 1/2	8.6
13	6 1/4	SEC	M4LJ	3856	3990	134	23	5.8
14	6 1/4	SEC	M4LJ	3990	4264	274	24 1/2	11.2
15	6 1/4	HTC	ONV	4264	4529	265	26 3/4	9.9
16	6 1/4	HTC	J-3	4529	4913	384	30 1/2	12.6

*rerun

BIT RECORD

OPERATOR Tenneco Oil Company WELL Diamond Canyon II 15-15

[illegible]

TENNECO OIL COMPANY - 10 POINT PLAN

1. The geological name of the surface formation: Mesa Verde
- 2 & 3. Estimated Formation Tops:

= (See Attached Drilling Procedure)
4. Proposed Casing Program:

= (See Attached Drilling Procedure)
5. Blowout Preventors:
Hydraulic double ram. One set of rams will be provided each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC Log.
6. Mud Program: (Sufficient quantity of mud and weight material will be available on location).

(See Attached Drilling Procedure.)
7. Auxiliary Equipment:
 - a. Kelly cock will be in use at all times.
 - b. Stabbing valve to fit drill pipe will be present on floor at all times.
 - c. Mud monitoring will be visual. No abnormal pressures are anticipated.
 - d. Floats at bits.
 - e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
8. Coring, Logging, and Testing Program:

(See Attached Drilling Procedure)
9. No abnormal pressures, temperatures or potential hazards such as H₂S are expected to be encountered.
10. The drilling of this well will start approximately (October 1980) and continue for 10 to 12 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.

MUD RECORD

OPERATOR Tenneco Oil Company **WELL** Diamond Canyon II 15-15

DATE	4/22	4/23	4/24	4/25	4/26	4/27	Air Drlg 4/30	Stuck 5/6	5/7
DEPTH	2037	2215	2394	2575	2760	2936	3940	6598	6598
WEIGHT	8.5	8.8	9.0	9.1	9.1	9.2	9.3	9.0	9.0
MUD GRADIENT	.442	.458	.468	.473	.473	.478	.473	.468	.468
FUNNEL VIS	36	37	37	37	37	70	48	62	39
PLASTIC VIS	10	10	14	9	8	15	14	16	12
YIELD PT	4	5	6	6	7	25	19	15	2
GEL STRENGTH	1/4	1/4	2/5	1/8	2/9	18/25	5/11	2/9	1/3
PH	11.0	9.5	9.5	9.5	9.5	9.0	8.5	10.5	8.5
FILTRATE API	10.2	6.0	6.0	9.2	12.2	7.2	4.4	7.0	3.8
CAKE	2/32	2/32	2/32	2/32	3/32	2/32 spongy	2/32	2/32	2/32
ALKALINITY FILTRATE	.25	.25	.25	.10	.28	.20	.1	.3	.1
CHLORIDE PPM	2000	600	2400	8000	8000	6000	5000	4000	4000
CALCIUM PPM	<40	<40	<40	<40	<40	<40	<40	<40	<40
SAND % CONTENT	tr	tr	1/4	1/4	1/4	1/2	1/2	1/4	1/4
SOLIDS % CONTENT	2	2	2 1/4	2 3/4	2 3/4	2 1/2	2 1/2	2 1/4	2 1/4
OIL % CONTENT	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø
WATER % CONTENT	98	98	97 1/2	97	97	97	97	97 1/2	97 1/2
LCM									

MUD RECORD

OPERATOR Tenneco Oil Company **WELL** Diamond Canyon II 15-15

DATE	Set Cement Plugs								
	5/8	5/9	5/11	5/12	5/15	5/17	5/18	5/19	5/20
DEPTH	6598	6598	6598	6598	3929	3856	3556	3571	3648
WEIGHT	8.5	8.8	8.8	8.8	8.9	8.4	8.8	8.8	8.7
MUD GRADIENT	.442	.458	.458	.458	.452	.437	.456	.456	.452
FUNNEL VIS	45	57	61	60	49	34	37	35	40
PLASTIC VIS	22	20	21	21	15	10	12	10	13
YIELD PT	20	10	14	14	8	6	2	1	5
GEL STRENGTH	5	2/8	3/9	3/9	2	1/4	0/3	0/3	1/8
PH	11.0	9.0	8.5	8.5	12.0	11.0	11.0	11.0	11.0
FILTRATE API	3.4	6.0	5.8	5.8	8.6	15.6	12.2	11.2	7.6
CAKE	2/32	2/32	2/32	2/32	2/32	3/32	3/32	3/32	2/32
ALKALINITY FILTRATE	.7	.1	.1	.1	1.5	1.8	1.8	1.9	1.3
CHLORIDE PPM	2500	2500	2500	2500	1500	1100	1100	1100	1100
CALCIUM PPM	40	40	40	40	180	160	220	120	50
SAND % CONTENT	tr	1/2	1/2	1/2	1/2	tr	1/2	1/2	1/2
SOLIDS % CONTENT	2	2	2	2	2	2	2 1/2	2 1/2	2 1/2
OIL % CONTENT	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø
WATER % CONTENT	98	97 1/2	97 1/2	97 1/2	97 1/2	98	97 1/2	97	97
LCM		10	8	8	5			2	10

MUD RECORD

OPERATOR Tenneco Oil Company **WELL** Diamond Canyon II 15-15

DATE	5/21	5/22	5/23	5/24	5/25	5/26	5/27	5/28	5/29
DEPTH	3698	3812	3906	4016	4258	4406	4600	4857	4913
WEIGHT	8.7	8.7	8.8	8.6	8.8	8.7	8.8	8.8	8.9
MUD GRADIENT	.452	.452	.458	.447	.458	.452	.458	.458	.463
FUNNEL VIS	44	39	42	35	42	36	35	42	40
PLASTIC VIS	14	12	14	12	14	10	9	15	12
YIELD PT	7	6	6	2	9	6	3	6	5
GEL STRENGTH	2/8	1/6	2/9	1/8	2/8	1/4	0.4	1/6	1/8
PH	11.0	11.0	11.0	10.5	11.0	10.0	9.0	9.0	8.5
FILTRATE API	6.0	6.0	8.0	12	7.6	7.2	8.6	6.8	8.2
CAKE	2/32	2/32	2/32	3	2/32	2/32	2/32	2/32	2/32
ALKALINITY FILTRATE	.9	.9	.9	.9	.4	.25	.17	.15	.05
CHLORIDE PPM	1100	1100	1100	1000	1000	600	520	450	450
CALCIUM PPM	50	30	30	30	30	430		30	80
SAND % CONTENT	1/2	1/2	1/2	tr	1/2	1/2	1/4	1/4	2 1/2
SOLIDS % CONTENT	2 1/2	2 1/2	2 1/2	2	2 3/4	2 3/4	2 1/2	2 1/2	2 3/4
OIL % CONTENT	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	
WATER % CONTENT	97	97	97	98	96 3/4	96 3/4	97 1/4	97 1/4	94 3/4
LCM	5	5	3	15	10	3	4	5	9

MUD RECORD

OPERATOR Tenneco Oil Company **WELL** Diamond Canyon II 15-15

DATE	5/30	5/31	6/1	6/2	6/3	6/4	6/5	6/6	6/7
DEPTH	4913	5000	5164	5274	5394	5483	5684	5943	6034
WEIGHT	8.8	9.0	8.9	8.9	9.0	9.0	9.1	9.0	9.2
MUD GRADIENT	.457	.468	.462	.462	.468	.468	.473	.468	.478
FUNNEL VIS	42	35	33	33	34	39	37	40	36
PLASTIC VIS	13	11	10	8	10	15	12	12	12
YIELD PT	8	4	2	2	5	5	6	4	6
GEL STRENGTH	2/8	1/7	1/6	2/6	3/7	4/9	2/8	2/9	2/10
PH	8.5	8.0	8.0	8.5	8.0	8.0	8.5	9.0	9.5
FILTRATE API	8.0	9.6	7.2	6.4	7.2	6.4	8.6	10.0	8.2
CAKE	2/32	2/32	2/32	2/32	2/32	2/32	2/32	3/32	2/32
ALKALINITY FILTRATE	.05	.05	.05	.1	.1	.05-1.5	.05-1.5	.2-1.5	
CHLORIDE PPM	450	450	500	325	200	200	200	200	
CALCIUM PPM		70	60	40	40	56	40	30	30
SAND % CONTENT	2	2	1 1/2	2	2	2	2	2 1/4	2 1/2
SOLIDS % CONTENT	2 1/2	3	2 1/4	2 1/4	3	3	3 1/4	3	3 1/2
OIL % CONTENT	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø	Ø
WATER % CONTENT	95 1/2	95	97 3/4	97 3/4	97	97	94 3/4	94 3/4	94
LCM	9	9	7	5	8	7	6	6	6

MUD RECORD

OPERATOR Tenneco Oil Company **WELL** Diamond Canyon II 15-15

DATE	6/8	6/9	6/10	6/11					
DEPTH	6098	6190	6303	6334					
WEIGHT	9.2	9.2	9.2	9.2					
MUD GRADIENT	.478	.478	.478	.478					
FUNNEL VIS	36	39	39	36					
PLASTIC VIS	12	12	13	11					
YIELD PT	3	10	10	4					
GEL STRENGTH	2/10	4/12	1/8	1/4					
PH	10.0	10	9.5	8.5					
FILTRATE API	8.2	8.0	7.2	8.0					
CAKE	2/32	2/32	2/32	2/32					
ALKALINITY FILTRATE	.6-1.6	.6-1.6	.2-1.6	.15-1.8					
CHLORIDE PPM	300	400	400	400					
CALCIUM PPM	30	48	60	40					
SAND % CONTENT	2 1/2	2 1/2	2 3/4	2 1/2					
SOLIDS % CONTENT	3 1/2	3 1/2	3 3/4	3 1/2					
OIL % CONTENT	Ø	Ø	Ø	Ø					
WATER % CONTENT	94	94	94	94					
LCM	5	8	5	7					

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 333.8' FSL 1522' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other)

SUBSEQUENT REPORT OF:

☒
☐
☐
☐
☐
☐
☐
☐
☐

5. LEASE

U-14078

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Diamond Canyon II Unit USA

8. FARM OR LEASE NAME

9. WELL NO.

15-15

10. FIELD OR WILDCAT NAME

Entrada Test

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 15, T18S R24E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

6061' gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

REGISTERED
JUN 20 1981
DIVISION OF OIL & GAS ADMINISTRATION

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and so on pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

5/17/81 - Survey, trip in hole. Circ and cond hole. Rig service. WOC.
5/18/81 - TOOH. TIH open ended. Set plug #4 @ 3832' w/Dowell RFC. WOC. TIH w/bit and tag plug @ 3510'. Dress plug and circ.
5/19/81 - WOC. Drilled cmt 3510-3571'. Circ and cond. Change BHA. TIH. WO survey tool.
5/20/81 - Drill w/Dynadrill 3571-3602'.
5/21/81 - Circ. Regain circ. TOOH @ 3680'. TIH. Reaming and drilling.
6/11/81 - Drill to TD @ 6334'. Circ for logs. TOOH. Hit bridge, 28 stands off cottom. Circ. TOOH. Log to TD.
6/12/81 - Laid down drill pipe. RU and run 139 jts 4-1/2" 10.5# K-55 STC csg w/shoe @ 6334' and float collar @ 6298'. Cmt w/100 sx modified self stress. Class G. Plug down. Circ cmt.
6/13/81 - Release rig 6/13/81. RDMORT.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Curly H. Hatten TITLE Asst. Div. Adm. Mgr. DATE 6/18/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

LEASE DIAMOND CANYON

WELL NO. 15-15

7 "OD. 23 LB. K-55 CSG. W/ 500 SX
TOC @ SURFACE

4 1/2 "OD. 10.5 LB. K-55 CSG. W/ 100 SX
TOC @ 5300' (BOND LOG)

DETAILED PROCEDURE

1. MUKUSA. Blow well down. NDUH. NUBOP.
2. POOH w/ TBG. RIH w/ BAKER CMT RETAINER AND SET AT 5800'. LOAD BACKSIDE & PT RETAINER TO 500 PSI. PU ON TBG & PT TBG TO 2000 PSI. STING OUT OF RET. & ESTABLISH REVERSE CIRC. STING INTO RET. & ESTABLISH RATE INTO PERFS.
3. PUMP 50 SX C.I.G. CMT. DISPLACE CMT TO WITHIN 1 GAL OF RET. STING OUT. PULL 1 STAND AND REVERSE TAG CLEAN.
4. DISPLACE hole w/ 9 ppg mud. POOH.
5. MUKUWL UNIT. Chem cut CSG AT 5200'.
6. PU CSG CREW. Pull AND lay dn 4 1/2.
7. RIH w/ 2 3/8 TO 100' below 4 1/2. STUB. SPOT 50 SX plug ACROSS STUB.
8. PU TO 3000' AND SPOT 50 SX plug AT 7" shoe.
9. PU TO 300' AND CIRC CMT TO SURFACE (APPROX 50 SX).
10. CUT OFF CASING HEAD AND SET P.N.P. MARKER
11. Fill pits AND clean location.

6150

6183

6293

4 1/2 @
6333'

$$\begin{aligned} \text{C.I.G.} &= 1.15 \text{ cuft/sx} \\ &= 4.9 \text{ sx/bbl} \end{aligned}$$

$$4 \frac{1}{2} = .016 \text{ bbl/ft}$$

$$6 \frac{1}{4} = .038 \text{ bbl/ft}$$

$$7" = .039 \text{ bbl/ft}$$

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS OF WELLS

(Do not use this form for proposals to drill or to deepen or plug a well in a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other ☐

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 333.8' FSL 1522' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	<input type="checkbox"/>

5. LEASE

U-14078

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Diamond Canyon II Unit USA

8. FARM OR LEASE NAME

9. WELL NO.

15-15

10. FIELD OR WILDCAT NAME

Entrada Test

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 15, T18S R2E

12. COUNTY OR PARISH STATE

Grand Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6061' gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7/29/81 - MIRUSU. Installed BOPS. RIH w/105 jts 2-3/8" tbg and 3/4" bit.
7/30/81 - Finish RIH w/2-3/8" tbg to PBD @ 6328'. Roll hole w/2% KCL water.
PT csg to 4000 PSI. Held ok. Began to swab.
7/31/81 - Finished swabing down fluid level for perf. POOH w/2-3/8" tbg. RIH and perf 6150-65', 6171-83' w/2 JSPF. RIH w/tbg, F nipple and pkr set @ 6034'.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED David M. Rose TITLE Production Analyst DATE 8/3/81

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐
2. NAME OF OPERATOR
Tenneco Oil Company
3. ADDRESS OF OPERATOR
P. O. Box 3249, Englewood, CO 80155
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 333.8' FSL 1522' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input checked="" type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	

5. LEASE
U-14078
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Diamond Canyon II Unit USA
8. FARM OR LEASE NAME
9. WELL NO.
15-15
10. FIELD OR WILDCAT NAME
Entrade Test
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 15, T18S R22E
12. COUNTY OR PARISH
Grand
13. STATE
Utah
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6061' gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8/1/81 - Acidize perfs 6150-65', 6173-83', used 500 gals 7 1/2% acid and 40 RCN slr balls. Release pkr and RIH to 6190' to knock slr balls off perfs. Swabbed well down. Pulled up hole and set pkr @ 6017'. Installed WH and flowed to clean up.
8/2/81 - RDMOSU.
8/14/81 - MIRUSU.
8-15/81 - RIH w/ 2 3/8" tbq open ended F nipple to 5825'. Frac'd Dakota w/72,000 gals 67% quality foam and 85680# 20/40 sand @ 28 BPM and 3850 psi. Open well to pit after 2 hrs on 1/2" tapped bull plug.
8/16/81 - SICP 200 psi. Flowing back frac. Landed tbq @ 6175'. NDBOP, NUWH.
8/17/81 - RDMOSU.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Don M. Lane TITLE Production Analyst DATE 8/24/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

15

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	Other _____		
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other _____
2. NAME OF OPERATOR Tenneco Oil Company						5. LEASE DESIGNATION AND SERIAL NO. U-14078	
3. ADDRESS OF OPERATOR P. O. Box 3249, Englewood, CO 80155						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with State requirements) At surface 333.8' FSL 1522' FEL At top prod. interval reported below At total depth						7. UNIT AGREEMENT NAME Diamond Canyon II Unit	
14. PERMIT NO. DIVISION OF OIL & GAS & MINING 127-81 43-015-20-790						8. FARM OR LEASE NAME	
15. DATE SPUDDED 4/17/81						9. WELL NO. 15-15	
16. DATE T.D. REACHED 6/12/81						10. FIELD AND POOL, OR WILDCAT Entrada Test	
17. DATE COMPL. (Ready to prod.) 9/7/81						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 15, T18S R22E	
18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6061' gr.						12. COUNTY OR PARISH Grand	
19. ELEV. CASINGHEAD						13. STATE Utah	
20. TOTAL DEPTH, MD & TVD 6334'						23. INTERVALS DRILLED BY 0'-TD	
21. PLUG, BACK T.D., MD & TVD 6293'						24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6150-6183 Dakota	
22. IF MULTIPLE COMPL., HOW MANY*						25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN DI/SFI CNFD CPL ACB BCSL						27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
9-5/8"		36#		418'		12-1/4"	
7"		23#		2934'		8-3/4"	
4-1/2"		10.5#		6334'		6-1/4"	
29. LINER RECORD				30. TUBING RECORD			
SIZE		TOP (MD)		BOTTOM (MD)		SIZE	
						2-3/8"	
						6175'	
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
6150-65'				6150-6183'			
6171-83' @ 2 JSPF				600 gals 7-1/2% HCL 40 slr balls			
				72,000 gals 67% quality foam &			
				85,000# 20/40 sand			
33.* PRODUCTION							
DATE FIRST PRODUCTION 8/1/81		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Shut-in	
DATE OF TEST 9/7/81		HOURS TESTED 3		CHOKE SIZE 1/4" orifice		PROD'N. FOR TEST PERIOD	
FLOW. TUBING PRESS. 356 PSI		CASING PRESSURE 390 PSI		CALCULATED 24-HOUR RATE		OIL—BBL. 766	
						GAS—MCF.	
						WATER—BBL.	
						OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS Electric logs to be forwarded by Schlumberger							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <i>David M. Nam</i>		TITLE Production Analyst				DATE 9/9/81	

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Castlegate	2548	2574	Water (brackish)	Castlegate	2548	
Dakota Sand	6150	6184	Gas	Dakota Silt	6042	
	6200	6298	Water w/slight amount gas	Dakota Sand	6139	
				Morrison	6300	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985
LEASE DESIGNATION AND SERIAL NO.

U-14078

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME Diamond Canyon II Unit USA
2. NAME OF OPERATOR Tenneco Oil Company		8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR P. O. Box 3249, Englewood, CO 80155		9. WELL NO. 15-15
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 333.8 FSL, 1522 FEL		10. FIELD AND POOL, OR WILDCAT Entrade test
14. PERMIT NO.		11. SEC., T., R., E., OR BLK. AND SUBSTY OR AREA Sec. 15, T18S, R22E
15. ELEVATIONS (Show whether SP, RT, or etc.) 6061 GR		12. COUNTY OR PARISH Grand
		13. STATE Utah

RECEIVED

AUG 6 1984

DIVISION OF OIL
GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACURE TREAT	<input type="checkbox"/>	FRACURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
CHANGE PLANE	<input type="checkbox"/>		

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Tenneco requests permission to plug and abandon the referenced well according to the attached detailed procedure.

Note:

Federal approval of this procedure is required prior to performing work.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 8/13/84
BY: John R. Buse

18. I hereby certify that the foregoing is true and correct

SIGNED: Scott McKenny TITLE: Senior Regulatory Analyst DATE: 7/30/84

(This space for Federal or State office use)

APPROVED BY: _____ TITLE: _____ DATE: _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on
reverse side)

Form approved
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-14078

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Diamond Canyon II Unit USA

8. FARM OR LEASE NAME

9. WELL NO.

15-15

10. TESTS AND POOL, OR WILDCAT

Entrade Test

11. SEC., T., R., E., OR NE. AND
SURVEY OR AREA

Sec. 15, T18S, R22E

12. COUNTY OR PARISH

Grand

13. STATE

UT

1.

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Tenneco Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 3249, Englewood, CO 80155

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)

At surface

333.8' FSL, 1522' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether SP, ST, OR, etc.)

6061' GR

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

RELL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETION

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT WORK ON:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and names pertinent to this work.)*

08/28/84: MIRU. Pump H₂O dn BS to kill well. POOH w/2-3/8" tbg. F/N plugged w/tbg disc & sand. Last 20 stands were wet. Tbg disc on top of T/N & 2 jts sand above F/N.

08/29/84: RIH w/2-3/8" tbg to 6197'. RU swab. Swab oily wtr 5500-5900'. Flwg gas w/ light steady blow. RD swab. Pump 120 bbls H₂O dn tbg. POOH w/2-3/8" tbg.

08/30/84: Ran cement retainer on 2-3/8" tbg & set @5800'. Press tested retainer to 500 psi. Held o.k. Stung out of retainer, spotted 55 sxs of Class G cement in tbg. Stung into retainer, squeezed 50 sxs away @2300 psi & 1/2-1/4 BPM. Stung out of retainer, dumped 15 sxs cement on top of retainer. POOH w/4 stands tbg & reverse well w/8.8 ppg gel wtr. POOH w/tbg. NDBOPS. Weld on 4-1/2" pulling nipple. RU GO. Pull csg collar thru elevators.

08/31/84: Freepoint 4-1/2" csg. Free @5000'. Cut 4-1/2" csg @ 5000'. Pull & recover 110 jts 4-1/2" 10.5 K-55 csg.

09/01/84: RIH to 5100' w/open ended 2-3/8" tbg. Equalize 50 sxs Class G cmt calculated TOC @4800'. Ran Baker 7" cmt retainer to 2898'. Set retainer & press test to 500 psi o.k. Sqzd 50 sxs Class G thru retainer. Stung out of retainer & pmpd 50 sxs Class G on top of retainer. TOOH 300' & reverse out. TIH to 300'. Pmp 85 sxs Class G w/2% CaCl₂ to surface. TOOH. Cut off csg head. Install dry hole marker.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Sr. Regulatory Analyst

DATE

9/6/84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

*See Instructions on Reverse Side

DATE: 9/11/84

BY: John R. Barr

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP
(Other instruction
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL ☐ GAS ☒ OTHER ☐

2. NAME OF OPERATOR

Tenneco Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 3249, Englewood, CO

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

3338' FSL, 1522' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6061' GR

5. LEASE DESIGNATION AND SERIAL NO.

11-14078

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Diamond Canyon II Unit USA

8. FARM OR LEASE NAME

9. WELL NO.

15-15

10. FIELD AND POOL, OR WILDCAT

Entrade Test

11. SEC., T., R., M., OR BLM. AND
SURVEY OR AREA

Sec. 15, T18S, R22E

12. COUNTY OR PARISH 13. STATE

Grand

UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Restoration

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent
to this work.)*

The referenced well was reclaimed on August 26, 1985 and reseeded per BLM guidelines on
September 5, 1985. The location was inspected and approved by BLM representative, Jeff
Robbens on September 5, 1985.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Senior Regulatory Analyst

DATE 9/27/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side